



PATENT

ATTORNEY DOCKET NO. UCSF.002.01US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Vishwanath R. Lingappa *et al.*) Examiner: Winkler, Ulrike
Serial No.: 10/040,206) Art Unit: 1648
Filed: January 2, 2002)
Title: HIV Capsid Assembly-Associated) AMENDMENTS TO THE CLAIMS
Compositions and Methods)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The Examiner is respectfully requested to make the amendments shown on the following pages.

CERTIFICATE OF FIRST CLASS MAILING

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October 2, 2003
(Date of Deposit)

Matthew Bogner
(Signature)

Matthew Bogner
(Printed Name)

IN THE CLAIMS:

Claims 1-11 (cancelled)

Claim 12 (previously presented): A method of producing monoclonal antibodies with conformational specificity for a host chaperone protein that is involved in assembly of immature HIV capsids and not to conformers of said host chaperone protein that do not bind to Gag and do not facilitate HIV capsid assembly, said method comprising the steps of:

immunizing knockout mice with said host chaperone protein, wherein said knockout mice have a non-functional gene that no longer codes for said host chaperone protein and lack the ability to produce said host chaperone protein;

producing hybridoma cells from antibody producing cells of said mice;

screening said hybridoma cells for production of antibodies to said host chaperone protein; and

propagating hybridoma cells producing antibodies with conformational specificity for said host chaperone protein, whereby antibodies to said host chaperone protein are produced.

Claim 13 (original): Monoclonal antibodies produced according to the method of Claim 12.

Claim 14 (original): Binding fragments to said conformer derived from monoclonal antibodies produced according to the method of Claim 12.

Claims 15-50 (cancelled)

Claim 51 (previously presented): The method according to Claim 12, wherein said host chaperone protein is HP68 and said conformer is an RNase L inhibitor.

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Claim 52 (previously presented): The method according to Claim 12, wherein said host chaperone protein is obtained by separating a capsid intermediate complex into components comprising said host chaperone protein and an HIV capsid protein.

Claim 53 (previously presented): The method according to Claim 52, wherein said capsid intermediate complex is selected from the group consisting of proteins having a buoyant density of about 10S, about 80S, about 150S and about 500S.

Respectfully submitted,

Dated: October 2, 2003



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